

SAFETY PRECAUTIONS FOR C80/C100 USERS

Outdoor Power Equipment Institute Recommendations



WARNING TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES:

The equipment which you have purchased does not have a spark arrester muffler. If this equipment is to be used on any forest and brush covered and or grass covered unimproved land, the law may require that a spark arrester muffler be installed and be in effective working order. The spark arrester must be attached to the exhaust system and comply with local authorities by-laws.



USE COMMON SENSE AND PLENTY OF IT

- 1)  **DO NOT** allow any person to operate the woodchipper without first reading and understanding the safety precautions and operating instructions. Also read and understand the engine manual. **KNOW THE CONTROLS AND HOW TO STOP THE WOODCHIPPER QUICKLY IN AN EMERGENCY.**
- 2) **NEVER** allow children to operate the woodchipper.
- 3) **ALWAYS** wear protective clothing when operating the woodchipper. This includes, but is not limited to: safety glasses, loose fitting gloves, steel capped boots and hearing protection. **NEVER** wear loose fitting clothing or jewellery when operating the woodchipper. Keep all clothing away from moving parts. Items could become caught in the machine, resulting in injury. 
- 4) **ALWAYS** use woodchipper in a well lighted area.
- 5) **ALWAYS** operate woodchipper on level ground only. Keep your work area clear and free of debris. Never attempt to move a woodchipper over uneven or hilly ground without a tow vehicle or adequate help.
- 6) **NEVER** operate the chipper when fatigued. **ALWAYS BE ALERT!** If you get tired while operating the chipper, take a break. If you have any type of physical or mental condition that may be aggravated by strenuous work, check with your physician before you operate this equipment. **NEVER** operate the chipper under the influence of medication, alcohol or drugs.
- 7) **DO NOT** allow other persons near the woodchipper. It is the responsibility of the operator to keep bystanders and animals a minimum of 6 metres (20 ft) away from the machine while in operation.
- 8)  **ALWAYS KEEP YOUR HANDS, FEET AND BODY AWAY FROM THE INTAKE HOPPER AND DISCHARGE CHUTE WHEN THE MACHINE IS IN OPERATION OR THE CHIPPER DISC IS TURNING.** 
- 9) **NEVER** operate the unit without the safety guards in place and in working order. Keep the unit well maintained and in good working order
- 10) **DO NOT** leave the machine unattended while the engine is running.
- 11) **DO NOT** overspeed the engine or alter the governor settings. Excessive speed is dangerous and will shorten engine life.
- 12)  **NEVER** operate the woodchipper in an enclosed area. Engine exhaust contains carbon monoxide, an odourless and tasteless poison.
- 13)  **STOP** the engine and disconnect the spark plug lead(s) and allow engine to cool before inspecting or performing maintenance on the woodchipper.
- 14) **REFUELLING**

 - * Shut off engine. **DO NOT REFUEL AN ENGINE THAT IS OPERATING!**
 - * Allow engine to cool. Minimum 5 minutes.
 - * **USE UNLEADED FUEL ONLY. Use clean, fresh unleaded fuel.**
 - * **Do not mix oil with unleaded fuel.**
 - * Do not over-fill fuel tank. Allow space for fuel expansion.
 - * Do not smoke near the unit.
 - * Allow no naked flame or hot material in refuelling area.
 - * Use only approved fuel containers and funnels. Remember, fuel is a potential hazard.
 - * Refer to engine owners manual for full details.




OPERATING INSTRUCTIONS

TRANSPORT

- 1) **WARNING:** Do not exceed 80 kms per hour when towing.
- 2) **WARNING:** Make sure discharge chute is tightened and secure before towing. (See Figure 1)




BEFORE USE

- 1)  **WARNING:** Before starting engine, inspect the intake hopper and remove any foreign debris or branches, stones, cans, nails, sweepings, wire, etc.
- 2) Perform a thorough visual inspection of the woodchipper and the chipper disc drive system.
- 3) Rotate and set deflection guards to desired direction and angle. (See Figure 1)

OPERATION

- 1) Familiarize yourself with the woodchipper and its controls.
- 2) Wear safety glasses or helmet and visor combination, loose fitting gloves, and hearing protection.
- 3) No foreign objects such as stones, steel, cans, glass, sweepings, wire, rope or nails should be fed into the chipper chute, as damage will occur.
- 4) Position the machine level and stable – to avoid unnecessary vibrations do not operate it on concrete or bitumen.



- 5)  Open fuel shut-off valve, if engine is equipped. Move choke control to CHOKE or START position. Note: Choke must be fully closed. Move throttle control to RUN or FAST position.



If engine is equipped with rocker style stop switch, push RUN or I (I = Ignition) before starting. Rewind Starter: Grasp rope handle and pull slowly until resistance is felt to prevent kickback. Then pull cord rapidly to overcome compression and start engine. Repeat if necessary with choke off and throttle control in FAST position. Operate engine in FAST position. Disengage Belt Drive. Start engine. Slowly increase engine revs to full speed. Hold engine engagement handle firmly and gradually lift the lever up and around as far as it will go, to engage the drive. This has to be done slowly to allow the cutting disc to pick up speed. Otherwise the engine will stall because there is a high inertia in the cutting disc.




- 6) Allow engine to reach full R.P.M. and operating temperature. Begin chipping at top speed-full throttle and continue to chip at top speed full throttle.
- 7) When feeding branches into chipper, make sure to feed the large end of the branch first. Place the branches into the chipper chute from the operator zone. Branches should not be forced into the chipper chute. If branches are extremely long it is recommended that they be cut into shorter lengths to achieve best results. Note: Side branches should be lopped off to avoid clogging the chipper chute. Brush should not be forced into the chipping unit. Chipper should feed itself. If unit does not feed itself, the knives may be dull or the blade to anvil setting may be incorrect.

Avoid feeding short, stubby pieces of wood into the machine, as they tend to bounce and spin in the inlet chute.

While operating the machine, keep a wooden stick handy, approximately 30mm diameter and 1 metre long. This will be useful for feeding in short, brushy and very leafy material and to keep the inlet chute clear.

The chipper can clog up with soft wet or fibrous materials. However, if you feed soft materials intermittently with branches, there should be no problem, as the woodchips tend to clean out the machine.

Should it happen that the chipper stalls through overloading or clogging, stop the engine. Ensure that the cutting disc is completely stopped and disengage the belt drive. Unbolt the housing cover. Clear and remove all material from inside the housing. Replace the housing cover making sure to tighten the bolts. Restart the machine.

- 8)  **CAUTION:** If chipper discharge clogs with material or the cutting disc jams, **STOP THE ENGINE IMMEDIATELY.**
- 9) When unit is in operation, approach chipper from the operator zone side (See Figure 1). **KEEP CLEAR OF DISCHARGE AREA.**
- 10)  The chipping disc will take several seconds to stop after the engine has been turned off. **WARNING: Do not go near the chipping disc for any reason during this period.** 
- 11) **Stop Engine:** Do not move choke control to CHOKE position to stop engine. Backfire or engine damage may occur. Move throttle control to SLOW position, then push rocker switch to 0 (STOP) or turn key to OFF, if equipped. Do not disengage the beltdrive with the machine running, as this will cause unnecessary friction and vibration on the beltdrive.



Typical Stop Switches

AFTER USE



- 1)  Turn fuel tap to "OFF" position.
- 2)  Allow machine to cool down.
- 3) Clean with warm soapy water. Ensure no water enters the carburettor.

Figure 1

